

BATRIBIKE®

ELECTRIC BICYCLES



TRIKE
20

Tricycle

Owner
Manual

MODEL:-



TRIKE 20

SERIAL NUMBER:-

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PURCHASE DATE:-

		/			/				
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DAY

MONTH

YEAR

DEALER STAMP

**IMPORTANT PLEASE READ THIS MANUAL FULLY
PRIOR TO ASSEMBLY AND USE**

For your safety and to ensure a long and trouble free life of your Batribike tricycle, check the operation of brakes, lights, bell and gears, and check tyre pressures are correct.
Also check all fasteners, including quick release mechanisms, before every ride.

Thank you for purchasing a **BATRIBIKE** Electric Tricycle

With care and correct usage your tricycle
will give many years of service.

Important

PLEASE CHARGE THE BATTERY BEFORE FIRST USING THE TRICYCLE

Even though the battery indicator will show charge this cannot be
relied upon until the battery has had the initial full charge.

PACKAGE CONTENTS

- 1 ELECTRIC TRICYCLE
- 1 BATTERY
- 1 BATTERY CHARGER with UK Mains Lead
- 1 MANUAL
- 1 WARRANTY CARD

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PARTS IDENTIFICATION

We continually strive to ensure that we provide you with the best possible products, therefore SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

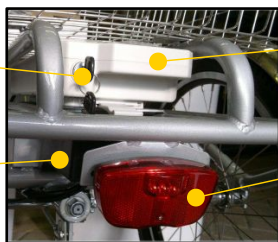
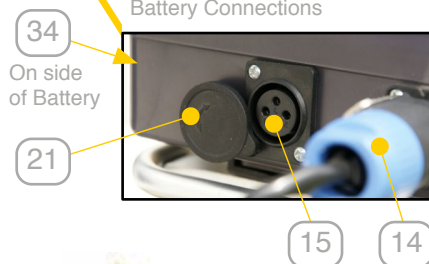
1	Display	13	Battery	25	Battery Lock
2	Thumb Throttle	14	Battery Power Plug	26	Front LED Light
3	Rear Brake Lever	15	Charging Socket	27	Rear LED Light
4	Front Brake Lever	16	Front Hub Motor	28	Front Mesh Basket
5	Motor Cutout Switch	17	Controller Box	29	Rear Wire Basket
6	Gear Selector	18	3 Speed Nexus Hub Gears	30	Rear Brake
7	Bell	19	Front Tyre 20"	31	Front Vee Brake
8	Handlebar Adjustment	20	Rear Tyre 20"	32	Chainwheel
9	Tilt Locking Lever	21	Charging Socket Cover	33	LED Capacity Meter
10	Hand Brake Lock	22	Assist Level Button	34	Battery Fuse
11	Power Button	23	Chain Guard	35	--
12	Front Forks	24	Seat Height Adjuster	36	--



Detail view of
Handlebar
Mounted Display



Detail view of
Battery Connections



CHARGING THE BATTERY

The battery can be charged on or off the trike.
To remove the battery, unplug the battery from the trike. (Blue Plug).

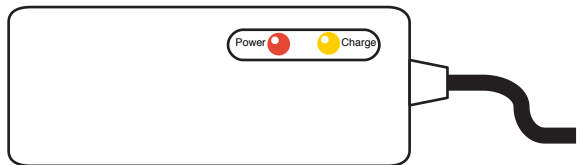
(To remove the Blue Plug slide the silver locking tab backwards and rotate the plug anti-clockwise, then pull out of the socket).



Then unlock with one of the two keys provided. Hold down the plastic securing tab and slide out the battery from the rear of the carrier. Insertion is the reverse of the above procedure.

WARNING

Ensure that charging socket cover is CLOSED before removing or inserting the battery. Failure to do so will result in breakage of the cover.



USE ONLY THE CHARGER SUPPLIED

The charging lead is plugged into the charging socket located behind the slide cover on the battery.



Unplug the battery from the trike (Blue Plug) before charging, then plug in the charging lead



IMPORTANT

It is important to plug the charger into the battery before switching on at the mains.

Similarly, switch off at the mains before unplugging the charger from the battery.

Plug the charger into the mains socket and switch on at the wall outlet. The lights on the charger will illuminate after a few seconds.



CHARGING



CHARGED

The RED light indicates that mains power is applied. The other light will show ORANGE/RED whilst charging is taking place. This may take up to six hours for a flat battery.

When the battery is charged the ORANGE/RED light will change to GREEN.

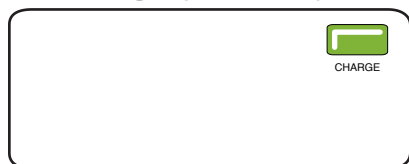
Once charged, switch off at the wall outlet and unplug. Unplug the charging lead from the battery and slide the cover back over the charging socket.

NOTE: If the battery is charged and the charger left switched on for an extended period the charger will enter a low power state, indicated by both the RED and ORANGE/GREEN LEDs flashing slowly. Switch off and unplug as above.



Alternative Charger Type

An alternative type of charger may be supplied with one light instead of the two described above. In this case the light is RED when Charging, and GREEN when the charge cycle is complete.



CHARGING IN
PROGRESS



CHARGE
COMPLETE

The battery does not have to be completely discharged before it is recharged. The Lithium battery has no "memory" and therefore can be charged at any time. It is perfectly acceptable to recharge the battery after a short ride so that the battery is fully charged before the next ride.



If your BATRIBIKE is not in use for an extended period it is imperative that you charge the battery before storage and then charge the battery once a month to prevent deterioration. When not in use, store the battery in a warm, dry place.

**FAILURE TO FOLLOW
THIS PROCEDURE WILL
INVALIDATE YOUR
BATTERY WARRANTY**

If Lithium batteries are left flat for an extended period then they may no longer be functional and a new replacement will be required.

With correct User Care as outlined above your battery should have a lifetime of around 1000 charges.

Usage

Your BATRIBIKE Electric Tricycle can be used as a normal pedal tricycle by simply not switching on the battery.

ELECTRIC TRICYCLE FUNCTIONS

Switching On

To use under electric power, plug in the battery with the blue plug located on the end of the battery beneath the rear of the seat.



Then press the ON/OFF button on the handlebar display.

Initial Display

All the lights on the display will initially come on in sequence and then momentarily go out. The lights will then display power assistance level and power remaining in the battery.

The assistance level will be set at LOW when the bike is first turned on.

The power to the throttle will also be on.



Switching Off








To turn off the Display and the power to the trike, press the ON/OFF button, the lights will turn off.

Battery Meter



The LED shows the charge remaining in the battery in the upper right of the display. The indicators will gradually go out as the battery power is used up. Refer to the table below for details.

BATTERY METER DISPLAYS THE CHARGE REMAINING IN THE BATTERY

SYMBOL DISPLAYED	CHARGE REMAINING	SYMBOL DISPLAYED	CHARGE REMAINING
 Capacity Indicator	50-100%	 Capacity Indicator	10-30%
 Capacity Indicator	30-50%	 Capacity Indicator	0-10%
 Capacity Indicator	BATTERY IS EXHAUSTED AND SHOULD BE RECHARGED AS SOON AS POSSIBLE		

If the power is left on for an extended period and the trike is not used, then the power will automatically be turned off.

Pedal Assistance






There are 3 levels of pedal assistance from the motor. Using the ASSIST button you can select from L (Low) M (Medium) and H (High).

Pressing the button will scroll through the levels. Pressing the ASSIST button when in H (High) mode will return to L (Low) assist.

The motor will then be activated upon pedalling. There is a rotation sensor located near the crank which senses when the pedals are being used.

The speed and power will vary as the level is changed. Refer to the table below

PEDAL ASSISTANCE FROM THE MOTOR		
LEVEL	PERFORMANCE *	EXAMPLE OF USAGE
HIGH	20+ Miles 13-15 MPH	Provides maximum power when negotiating hills and head winds. Great when needing to simply get from A to B as fast as possible.
 <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>		
MEDIUM	Range Not Tested	Normal Use Mode. This is the level to use for everyday cycling. Gives good performance whilst maximising usable range per charge. Best for everyday use.
 <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		
LOW	Range Not Tested	Use this lower power level when negotiating busy cycle paths and crowded areas. Also use when setting off and gradually increase through the levels for a smoother performance. Ideal for negotiating obstacles.
 <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		

* Please remember that the above values are provided as a guide. Due to manufacturing tolerances the speeds and distances may vary.

Weather and terrain will affect the performance. In hilly areas or when the trike is heavily loaded there will be a significant increase in the power used from the battery and hence the range will decrease accordingly. A lightly loaded trike will achieve higher performance levels.
(These results were obtained by test riders in optimal conditions - 75kg rider, level ground, no wind).

No Assistance - Normal Pedal Tricycle

If you plug in the battery but do not press the power button on the display your Batribike Trike will now act and feel like a normal tricycle. This is useful when you are feeling fit at the start of a journey or using your trike for exercise purposes. Power is still only a button press away.

Using the Throttle - Country Specific

The throttle is available all the time the power is switched on at the handlebar display.

The throttle can be used whilst pedalling in any of the assist modes to give extra help as required.

The throttle is not limited by the assistance level selected and is available to give up to maximum power at all times.

Use the throttle control gently. A small push will apply a small amount of power. Pushing more will increase the power until the control is fully rotated when full motor power will be applied.

Throttle assistance can also be used without pedalling.

A handy way of using the throttle is to pull away from junctions, or when starting on inclines as the rider will pull away easier and is less likely to wobble. It can also be useful when used to pull out and overtake slower cyclists smoothly and quickly.

Care should be taken not to operate the throttle when mounting/dismounting the tricycle. It is good practice to turn off the power before getting off or on the trike, also to hold one or both of the brakes to maintain stability. Holding the brake cuts the power to the throttle and will stop the trike moving if the throttle is accidentally operated.

It is not advisable to operate the throttle and then release the brake as this will cause a power surge which may cause damage to the tricycle and/or risk of personal injury.

Using the throttle at maximum level at all times will use more battery power than when using it with discretion.

PLEASE NOTE:

The throttle control is not activated for some countries due to legal restrictions. Please refer to your dealer for help and advice.

BS EN15194 Compliance

The **BATRIBIKE** Trike conforms to BS EN15194.
For the British market, the addition of a throttle control has rendered this not compliant in some countries.

- You are recommended to seek advice from the relevant authorities in the country you are visiting before travelling.

STANDARD TRICYCLE FUNCTIONS

Gears—3 Speed Nexus Hub

Gear number 1 is low and makes it easier to pedal (for hills and rough terrain).

Gear number 3 is high and helps you to go faster (for use on level ground).

To change gear use the selector mounted on the left handlebar. Twist the inner portion of the handlebar grip to change up or down through the gears. The gear number is displayed in a small window as shown above.



Braking

To stop, release the throttle and pull the brake levers.

Parking Brake

The Trike 20 is fitted with parking brakes. This allows the rider to leave the Trike with confidence, knowing that it will not roll away.

To operate the parking brake, pull the brake lever towards the handlebar and click the small parking brake lever into position. This will retain the brake lever close to the handlebars and keep the brake on. Both brake levers have the parking brake facility.

To release, squeeze the brake lever and the small parking brake lever will click back to the released position for normal riding.

Note:-

It is recommended to use the parking brake facility on both brakes when parking the Trike.

It is recommended to leave the parking brakes off when storing the Trike.



Parking Brake OFF



Parking Brake ON

Tilting Mechanism

The Batribike Trike is fitted with a tilting mechanism which aids the rider to corner more easily. Using the tilting facility also allows for greater stability when cornering, reducing the risk of lifting a rear wheel.

The lever to release the tilt lock is located on the handlebars

To release the tilt lock pull the lever towards you. To lock the tilting mechanism push the lever in the opposite direction, (away from the rider).

If the lever is stiff to pull, gently rock the handlebars from side to side.

It is recommended that the tilt is released after getting on the Trike and that it is locked before getting off.



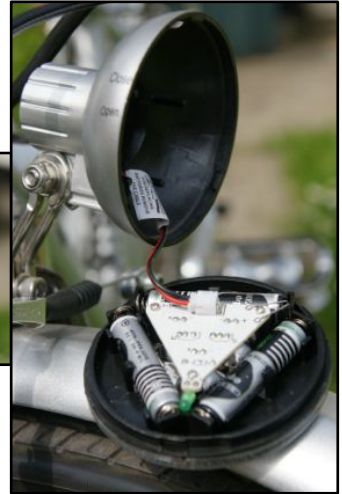
Lights

Lights are provided on your **BATRIBIKE** Tricycle. These are power efficient LED units which achieve a long life on each set of batteries.

SAFETY FEATURE - The power for the front and rear lights is kept separate from the main power supply so that in the event that the battery is exhausted you will still have lights for safety.



The front light is powered by 3 AAA size batteries and is switched on by the black push button switch at the rear of the unit.



To replace the batteries simply twist the lens anti-clockwise and pull free.

There is a small warning light on top of the front lamp unit. This lights to show that the batteries are getting low and should be replaced.

The rear light requires 2 AA batteries. You will require a small Philips screwdriver to take off the red lens for battery replacement. It is switched on and off by the small red push button switch on the underside of the unit.



Tyre Pressures

The tyres should be pumped up to within the range stated on the sidewall. This should be regularly checked as running with the correct pressures will ensure maximum range from the battery.

Seat Height Adjustment

Rotate the locking bar (located below the seat) anti clockwise to release the seat post. The seat height can then be adjusted. Rotate the locking bar clockwise to secure the seat post.



Adjusting the Handlebars

The handlebars can be adjusted for height and angle to suit the rider. Hex keys, (not supplied), will be required to carry out these adjustments.

Note the marking on the seat post and handlebars that indicates the minimum insertion. Do not use the Trike with the markings showing.

Carrying Capacity

The Batribike Trikes are fitted with useful load carrying baskets front and rear. Please note the maximum load for the rear basket is 40kg and the maximum combined weight for Rider and load is 130kg.

All other operation of your **BATRIBIKE** Electric Trike is as per a normal pedal cycle.

MAINTAINANCE SCHEDULE

Maintaining your tricycle ensures you'll get the most out of every ride and out of the entire life of your BATRIBIKE electric trike. How much of your trike's maintenance you can do yourself will depend on your knowledge, skill, experience and whether you have the necessary tools for the job.

Beyond this manual, it is good to consult your BATRIBIKE dealer for advice if you are at all unsure about any of the procedures described. Normal maintenance is not covered under the warranty and this service may be chargeable.

Before every ride

- Mechanical safety checks, (see notes on page 2). Use a fully charged battery. Visual inspection for damages.

After every ride (or WEEKLY)

- Clean the trike, including chain rings and sprocket. Clean and lightly oil the chain and gears.
- This must be carried out after every ride in dusty, marine or winter conditions due to the salt laden atmosphere.

Every 20 - 30 hours of riding (or MONTHLY)

- Squeeze the brakes and rock the trike to check for any looseness of the headset or brake mechanisms with each forward or backward movement. If any are loose, have your dealer check it.
- Lift the front wheel and turn handlebars left and right to check for tightness of steering. If tightness is detected it may be necessary to lubricate bearings and/or adjust the headset.
- Check and adjust the brakes, replace if worn out.
- Squeeze spokes in adjoining pairs between your thumb and index finger.
They all should have the same tension. Have your dealer re-spoke or true the wheel if necessary.
- Check cables for rust, kinks and fraying, have your dealer replace them if necessary.
- Check bottom bracket for play and adjust if necessary.
- Check wheel bearings for play and adjust/lubricate if necessary

After 3,000 miles (5,000 km) (or YEARLY)

- Hub motor and general inspection
We recommend you arrange to have a thorough inspection of your tricycle by a BATRIBIKE dealer. This includes opening up the hub motor to inspect and lubricate the gears.

Tyre Pressures

The tyres should be pumped up to within the range stated on the sidewall. This should be regularly checked as running with the correct pressures will ensure maximum range from the battery.

Repairing a punctured tyre

If you have a punctured tyre, we recommend that you get a specialist to carry out the repairs. You can always of course consult a specialist and carry out the repairs on your own if you are confident that you have the necessary skills. As there are no electronic components on the rear wheels, their removal follows standard procedures as with normal bicycles.

Removing the Front Wheel



If you need to remove the front wheel, for example, to replace the front tyre, then the motor can be unplugged to aid disassembly. The plug is located on the left side of the forks as shown, (Left).



Take care when re-assembling the plug to ensure that the two arrows are aligned correctly.



Remember to ensure that the cable is suitably secured to the tricycle fork upon re-assembly.

Be mindful of the tightening assembly sequence of washers, nuts and spacers.

Battery Fuse

If the battery will not operate or charge correctly, firstly check the battery fuse (rated 30A) located on the side of the battery beneath the screw cover. Use a large flat bladed screwdriver or a small coin to remove the cover.

WARRANTY CONDITIONS

The following warranty conditions are in addition to your legal rights.

Requirements for Warranty

As the makers, we guarantee against possible material or construction defects. Provided the following conditions are satisfied :

- Please retain your receipt as this is your proof of purchase and entitlement to Warranty. The guarantee starts on the date of purchase.
- Warranty is non transferable and applies only to the original owner.
- The Frame of your new **BATRIBIKE TRIKE** is guaranteed for 1 year from date of purchase.
- The Motor and Electronics are guaranteed for 1 year from date of purchase.
- Other main cycle parts have a warranty of 1 year.
- The battery is covered for 1 year.

Please take note of the Battery Care information on pages 6 & 7 of this manual to ensure your battery life is maximised, and to comply with the Warranty Conditions

Exclusions from Warranty

- When the tricycle is used negligently or results in damage due to traffic accident.
- Damage ascribed to normal wear and tear.
- Poor maintenance, or modifications that no longer complies with regulations or original technical specifications.
- Damage due to external causes.
- The tricycle is put up for hire.
- The battery pack is used incorrectly or tampered with. This also applies during charging.
- Compensatory costs arising from damages or accidents.
- Cost incurred by loss of the tricycle's usage.

Brake blocks/pads, tyres, lights and cables etc. are considered as consumables and replacements are available from BATRIBIKE or may be obtained from your local cycle shop.

In the event of a Warranty claim

- In the event of warranty repairs becoming necessary you should return your tricycle to your Authorised Batribike Dealer, (where you originally purchased your Batribike).
- Original defective parts that are sent to the manufacturer for assessment will be replaced by the same or equal value part.
- Delivery and collection charges are not included. These are borne by the owner.
- Fallowgate Limited exclusively makes the decision whether or not the warranty applies.

Please consider the environment before disposing of any part of your Batribike Electric Bicycle.



The Battery Pack contains Lithium and Special Consideration should be given to its safe disposal. Your Local Authority should have the necessary facilities in place.



If you prefer you may take your original battery to BATRIBIKE for recycling.

Never dispose of batteries in a fire or subject to puncture or crushing.

Technical Specification TRIKE 20

Frame Size	44.5 cm (17.5 inches)	Power Delivery	Pedal or Throttle **	Lights	Front - LED light requires 3 x AAA batteries
Frame Material	Steel	Sensor	Rotation Sensor		Rear - LED light requires 2 x AA batteries
Colour	Silver	Range (motor only)	up to 15 miles	Saddle Height	82 - 93 cm (32.2 - 36.6 inches)
Weight (inc. all fittings, rack, mudguards etc)	38.6 kg (85lbs) inc. battery 35.1 kg (77.4 lbs) battery removed	Range (pedal assist)	Over 20 miles on High	Note - the min height can be reduced by purchasing a seat post without suspension	
Battery	Lithium	Gears	3 speed Nexus hub	Overall Length	170 cm (67 inches)
Battery Power	36V 10Ah	Brakes	Powerful Vee Front & Internal Band Rear	Overall Height	98 - 106 cm (38.6 - 41.7 inches)
Battery Life	Refer to separate battery info available on website	Wheels	20"	Step-Thru Height	27 cm (10.6 inches)
Motor	250W front hub brushless	Forks	Standard	Overall Width	65 cm (25.6 inches) Rear 66 cm (26 ins) handlebars
Speed	Up to 15 mph (25 kmh)	Seat	Comfort Saddle with suspension seat post	Max Rider Weight	130 kg (20 st 7 lbs)
Power System	Cycle only or Multi-Mode Power	Stand	N/A	Security	Battery locks on to frame with unique key
	Pedal assist (3 power levels) Throttle **	Load Carrying	Hand Brakes fitted Rear - Large wire basket 40kg max loading Front - Mesh basket	Rider Protection	Mudguards and chainguard fitted as standard
				Note ** Throttle fitment is Country Specific	

(All distances quoted on flat ground with a 75 kg (12 stone) rider)

www.batribike.com



BATRIBIKE Electric Bicycles are exclusive to:-

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BATRIBIKE are
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